



RSP Pro Production Series

A New Dimension in Stereolithography 3D Printing

- **Cost-effective ownership** throughout entire life cycle.
- Freedom to collaborate and innovate: **open design** for materials and machine access.
- Printed parts demonstrate **excellent sidewall quality** and **fine detail**, contributing to lower post-finishing requirements.

System Features

- Scanning speed can reach 15 m/s.
- Key components are of international top brands, Panasonic of Japan, Optowave /Spectra-Physics of America/Germany, Scanlab of Germany.
- Automatic control of surface level and processing parameters.
- Granite recoater frame for enhanced recoating stability.
- Closed loop control strategy for: Platform movement/Laser power/Material level/Temperature/Vacuum.
- CE certification.
- Convenient assembly and disassembly of platform.

Versatile Application Range · High Accuracy · Excellent Surface Aesthetics



Technical Data

* Specifications are subject to change;
consult with your sales representative for confirmation of current offering.

	RSPro 600	RSPro 800
Build Envelope Capacity	23.6 × 23.6 × 19.7 in (600 × 600 × 500 mm)	31.5 × 31.5 × 21.7 in (800 × 800 × 550 mm)
Maximum Part Weight	169.8 lb (77 kg)	330.7 lb (150 kg)
Accuracy	Part size < 3.9 in (100 mm): ±0.004 in (±0.1 mm) Part size ≥ 3.9 in (100 mm): ±0.1% x L	Part size < 3.9 in (100 mm): ±0.006 in (±0.15 mm) Part size ≥ 3.9 in (100 mm): ±0.15% x L
Beam Size	Nominal 0.005 -0.008 in (0.12 - 0.20mm)	Nominal 0.005 - 0.008 in (0.12 - 0.20 mm)
Scanning Speed	15m/s (Maximum); 6-10m/s (Typical)	15m/s (Maximum); 6-10m/s (Typical)
Layer Thickness	0.002 in (0.05 mm) minimum; 0.01 in (0.25 mm) maximum	0.003 in (0.07 mm) minimum; 0.01 in (0.25 mm) maximum
Weight	3968 lb (1,800 kg) (with 728 lb (330 kg) initial fill inside)	4409 lb (2000 kg) (with 1235 lb (560 kg) initial fill inside)
Machine Size (WxDxH)	62.9 × 63.5 × 83.5 in (1598 × 1612 × 2121 mm)	70.8 × 63.1 × 83.4 in (1798 × 1602 × 2118 mm)

RSPro 600 / 800

Laser	Solid-state frequency tripled Nd: YVO ₄
Wavelength	355 nm
Controller	UnionTech™ RSCON
Part Preparation	Materialise Magics
Operating Systems	Windows 7, Windows 10*
Input Data File Format	STL
Network Type and Protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS
Electrical Requirements	200-240 VAC, 50/60 Hz, single phase
Laser Warranty	5,000 hours or 15 months (whichever comes first)
Recoater Frame	Granite
Systems Control	Closed-loop
Power (nominal)	Typically 300 ~ 800 mW (@100kHz) on the target surface of the material under nominal optical path condition

Operating Environment:

Temperature Range	72–79 °F (22–26 °C)
Maximum Change Rate	1 °C/hour
Relative Humidity	< 40 % non-condensing

Accessories :

Platform Change Carts	Manual offload cart (optional)
Processing and Finishing	Post-Curing Unit (optional)
System Warranty	One-year warranty (under UnionTech's Purchase Terms and Conditions)

UnionTech

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